



Energy Demand at our Factories and Buildings are growing

With that so are our Energy Charges are also increasing

**Save Energy
Save Money**





Predictive Maintenance

EMS can help predict equipment failures by monitoring energy usage patterns, allowing organizations to perform preventive maintenance and avoid costly downtime.

Improved Efficiency
EMS enables organizations to identify inefficiencies in their energy usage and implement measures to improve efficiency, such as upgrading equipment and implementing energy-saving practices.



Cost Savings

By optimizing energy usage and reducing waste, EMS can lead to significant cost savings on utility bills.



7 Smart reasons to Choose Energy Management System

Data-Driven Decision Making

EMS provides valuable data insights that organizations can use to make informed decisions about energy usage, investment in energy-saving technologies, and operational improvements.

Enhanced Control and Visibility
With EMS, organizations have real-time visibility into their energy usage and can remotely control equipment to optimize performance.



Compliance

Many regions have regulations regarding energy usage and emissions. EMS helps organizations stay compliant with these regulations by providing monitoring and reporting tools.



Sustainability

EMS helps organizations reduce their carbon footprint by minimizing energy consumption promoting the use of renewable energy sources.



Energy Management and Saving is today an important KPI in most Industries

What gets monitored

Get Measured

And Gets Improved



Digital Panel Meters

Primarily, the tool used for monitoring Energy consumption are meters



But meters only give instantaneous values. This is not sufficient to take decisions on energy saving

Energy Management

Questions we need to answer

To control energy cost,
we must gain these
questions

How much energy is used?

What are the major loads?

When and where electrical energy is used the most?

Finally, how much does it cost?



The Answer Lies in Analytics

We need comprehensive analytics of
consumptions patterns

Based on the pattern, identify areas
where energy can be saved

This is where energy management
systems play an important role

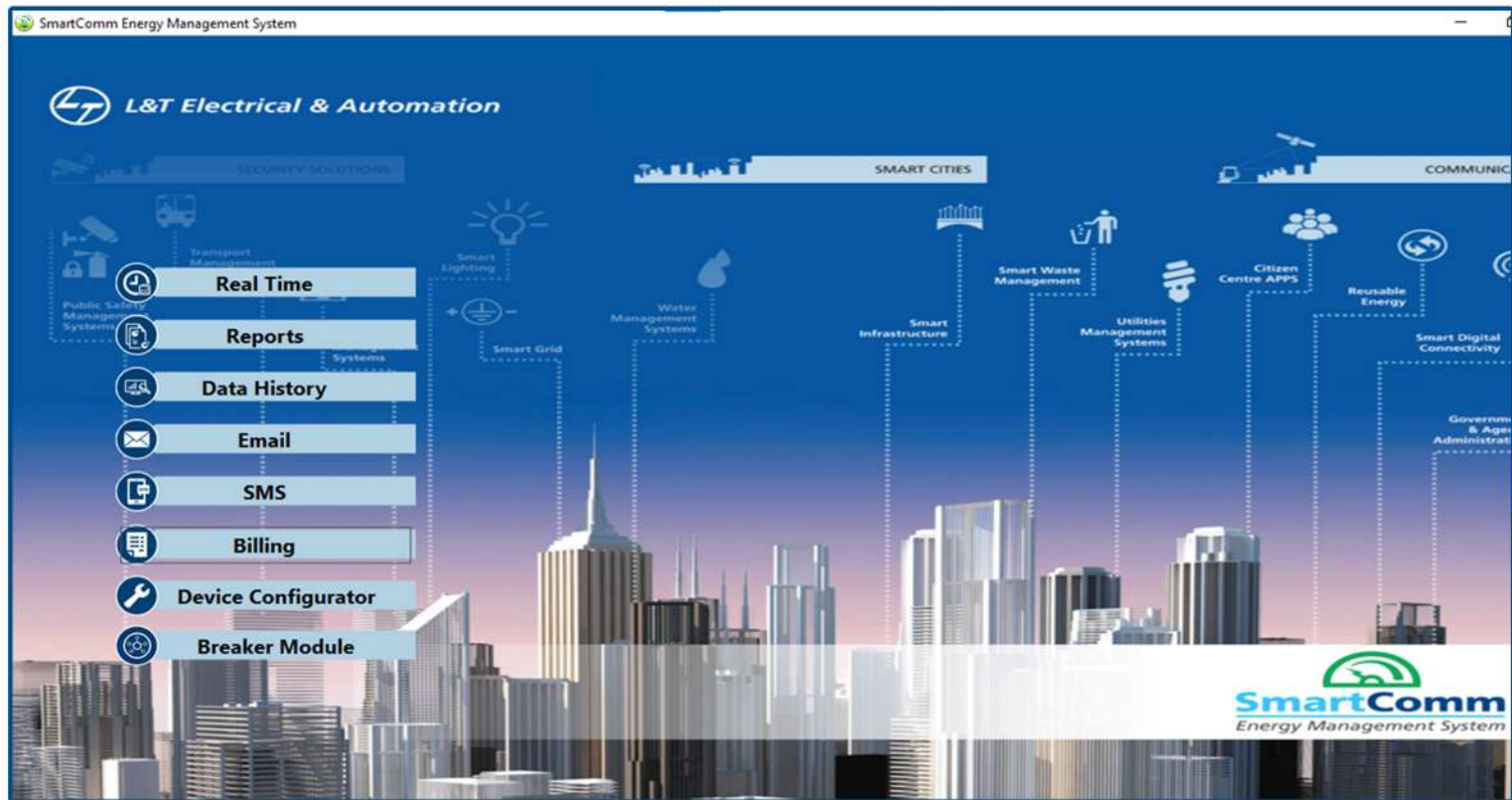


SmartComm EMS

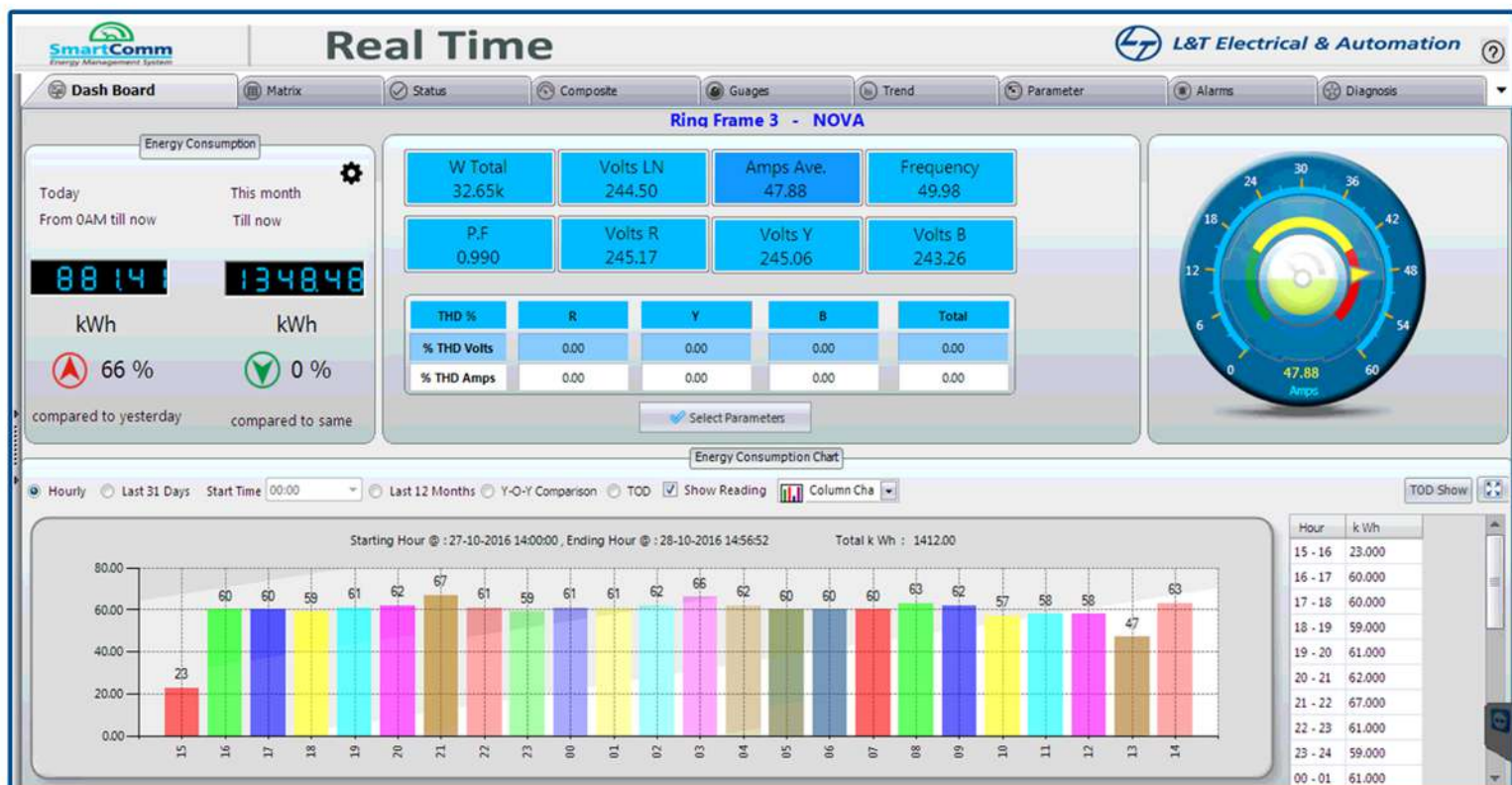
- SmartComm EMS, a simple yet a powerful energy monitoring software with multiple benefits that empowers the customer to save money.
- **Empowers** the user to take corrective actions in areas of energy wastage
- **Management** of energy for optimal utilization
- **Save** money by identifying energy guzzlers for corrective actions to conserve energy.



SmartComm EMS Main Screen



Energy Consumption charts for single device at time



SmartComm EMS - Report

- In Report module user can generate data in table, Chart format in Excel
- Provision to generate 26 reports for analysis
- Multiple energy reports can be generated including daily, weekly, monthly and yearly basis.
- Provision to set 5 reports as favourites that are frequently used by the user

Energy Report

- 15 Min Energy Report
- Hourly Energy Report
- Daily Energy Report
- Monthly Energy Report
- Multidevice- Shift wise Report
- Time of Day Report

Log Report

- Daily Hour Log Book
- Single Device Multiparameter Report
- Multi Device Single Parameter Report
- Multi device multi parameter Report

Flexi Type Energy Report

- Feeder wise
- Feeder Group wise
- Selected Group wise
- Feeder in other groups
- Multiday single shift
- EB/DG Report
- Multiday TOD Report

Other Report

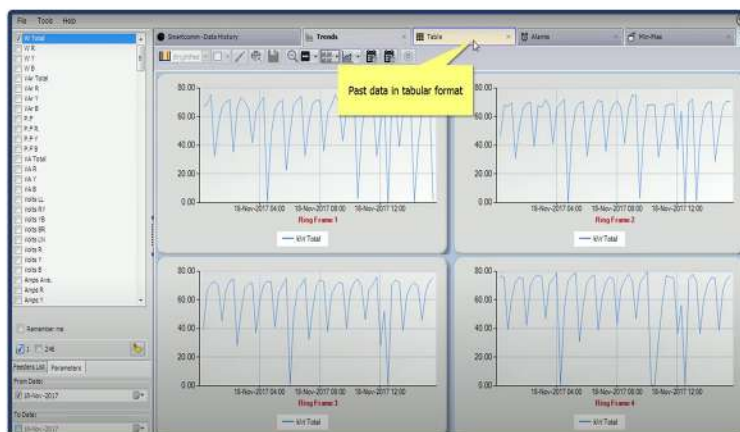
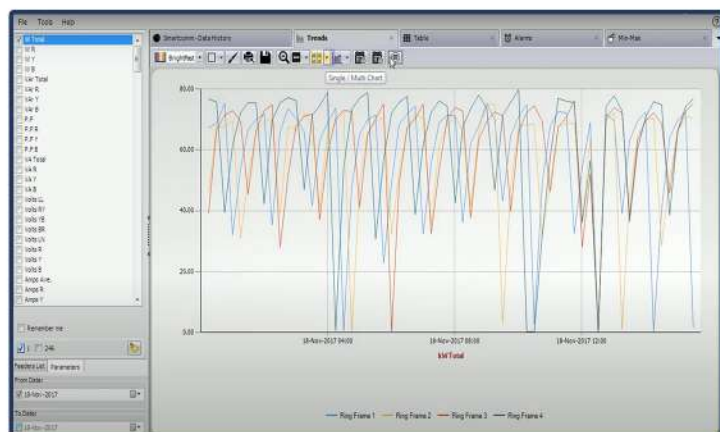
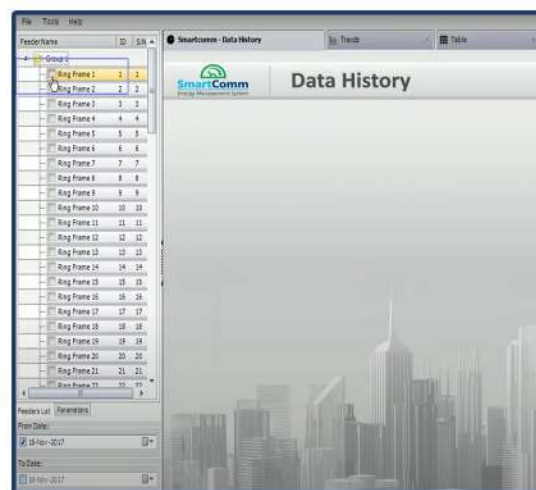
- Average PF
- Alarms
- MINMAX
- Daily-Month Max Demand
- Power Outage

Analysis Report

- 2 Days Comparison Chart
- Energy Distribution & Loss
- Machine Utilization
- Month wise consumption

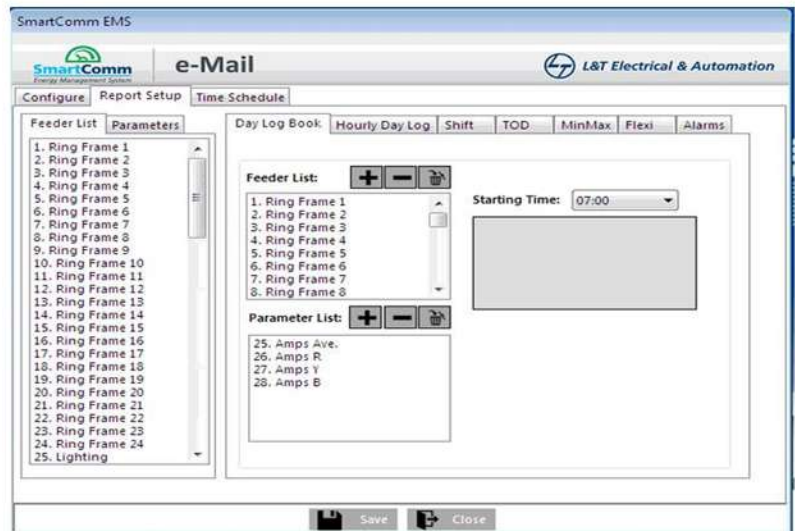
SmartComm EMS – Data History

- Trend analysis of historic data from between two dates
- Multiple views of charts with device and parameters
- Provision to save and print the charts
- Zoom in and out feature in charts for detailed analysis
- Device wise alarm history can be generated and analysed
- Device Min-max value analysis



SmartComm EMS - Email

- Automated emails of reports at user defined time and email ids.
- Outlook or gmail configuration possible



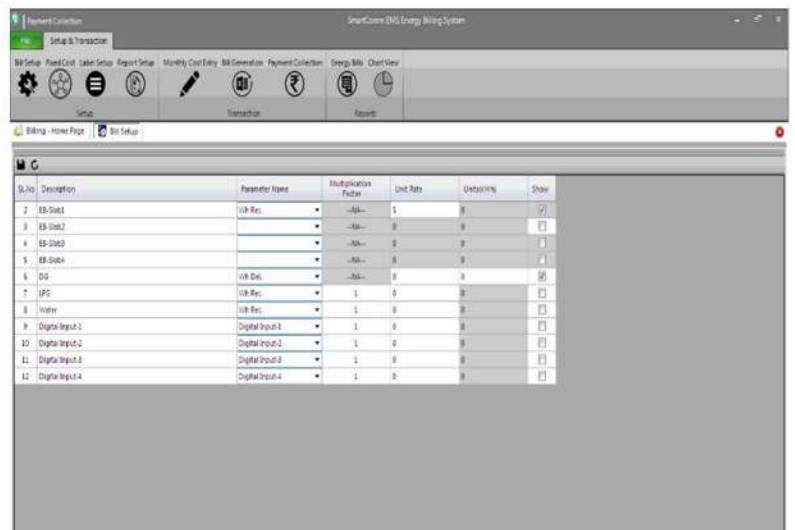
SmartComm EMS - SMS

- Provision to send SMS to mobile nos configured by user for alarms set for value threshold
- SMS text as required
- SMS to users as per hourly energy, Daily energy and alarms for threshold energy



SmartComm EMS - Billing

- Provision to generate bills for commercial complexes
- Options for slab rates, fixed charges, bill no. & date, etc.





Can we access EMS from any location inside the plant?

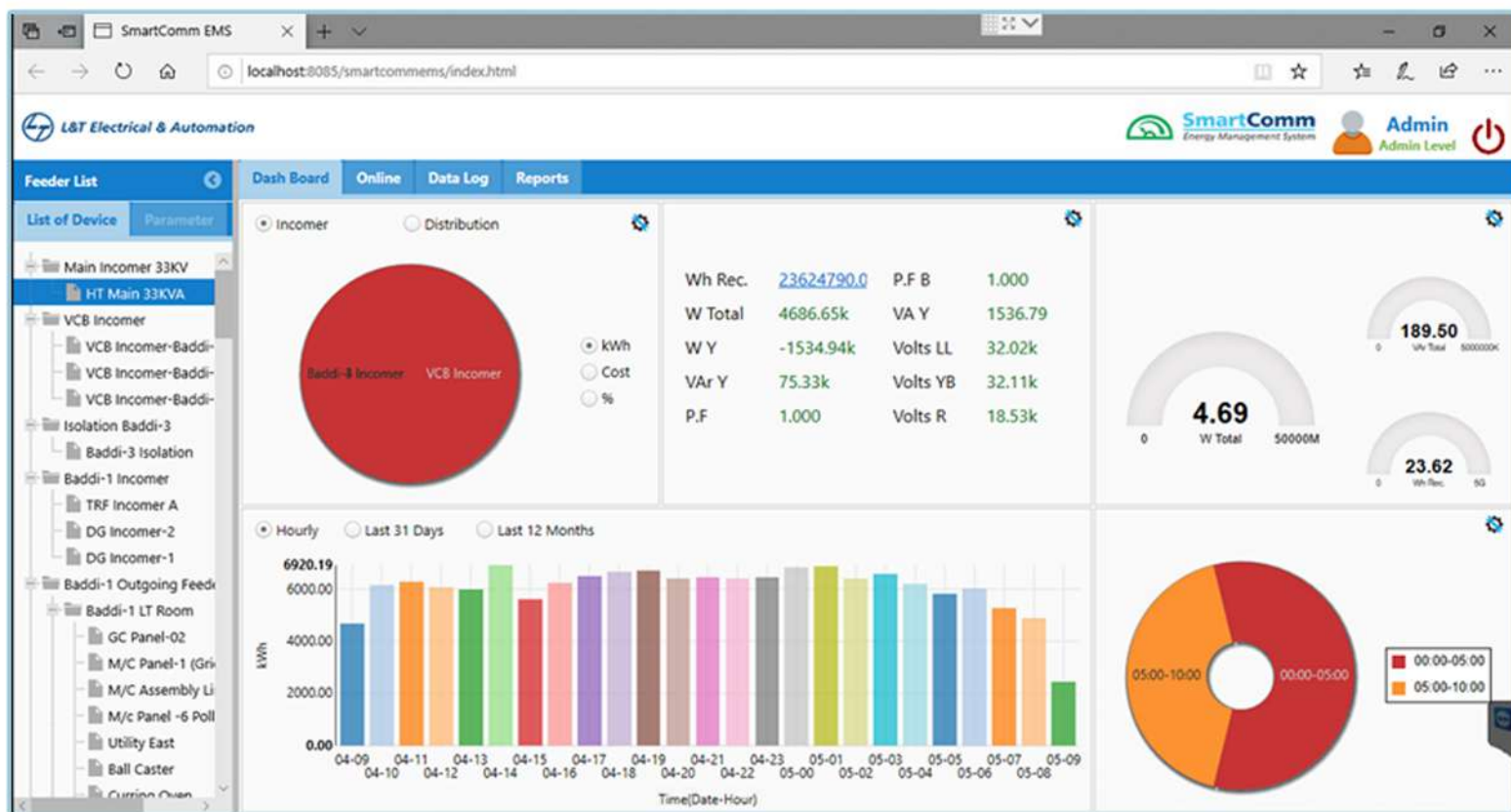


Can we monitor EMS from anywhere in the world?

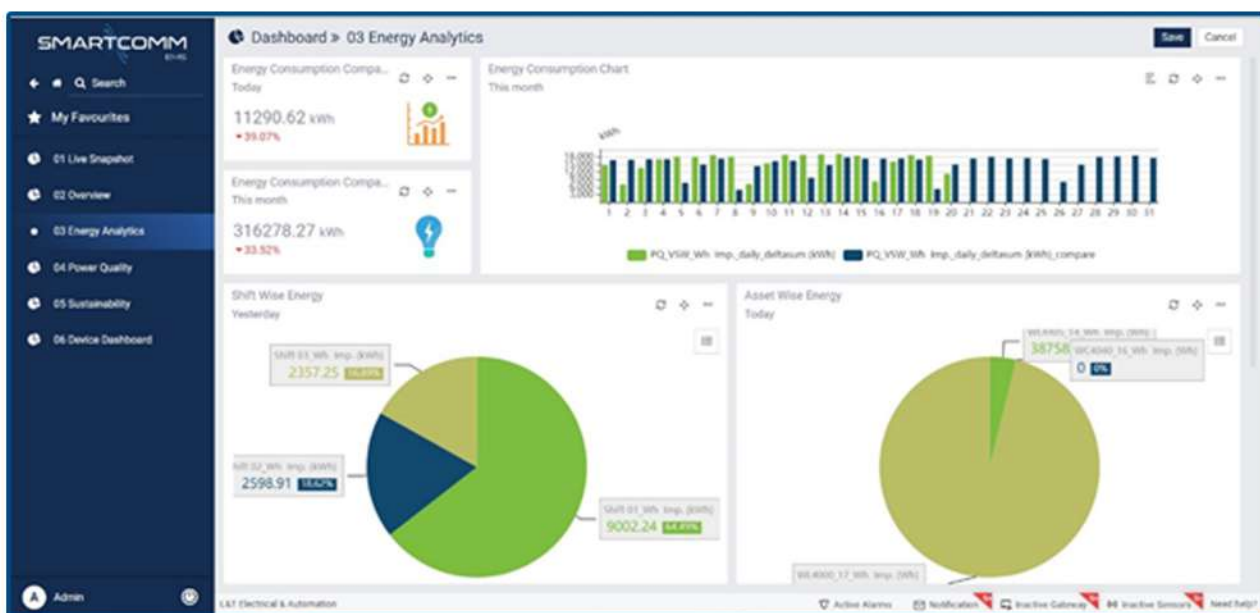
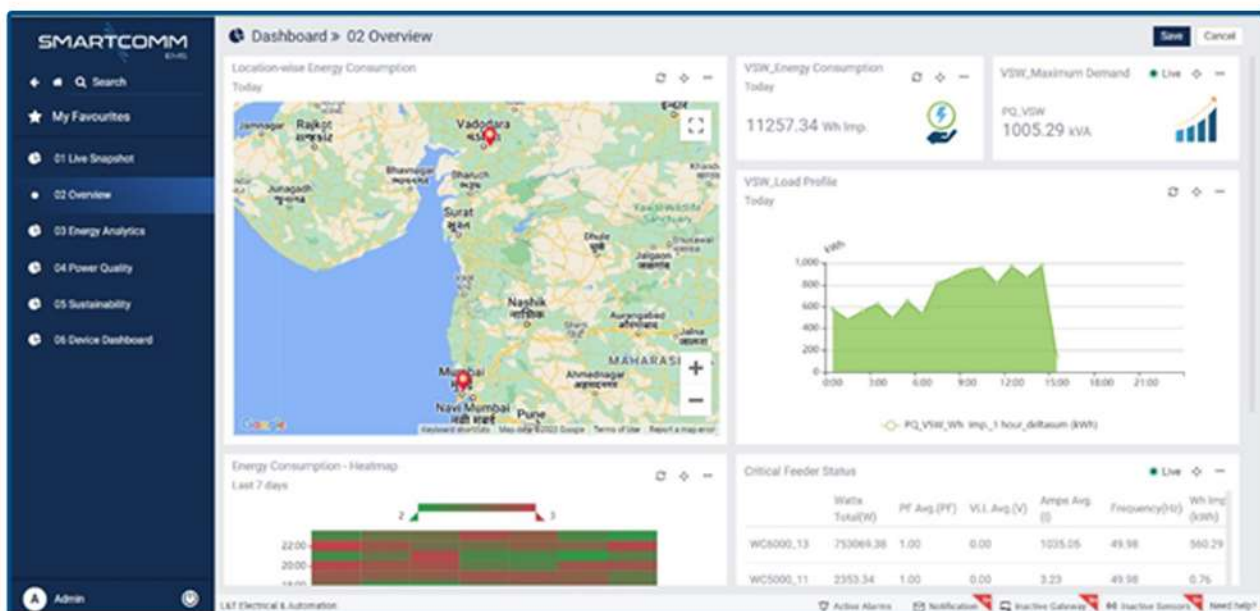
Browser based viewing

Within the organization (with private ip)

Outside the organization (with public ip)

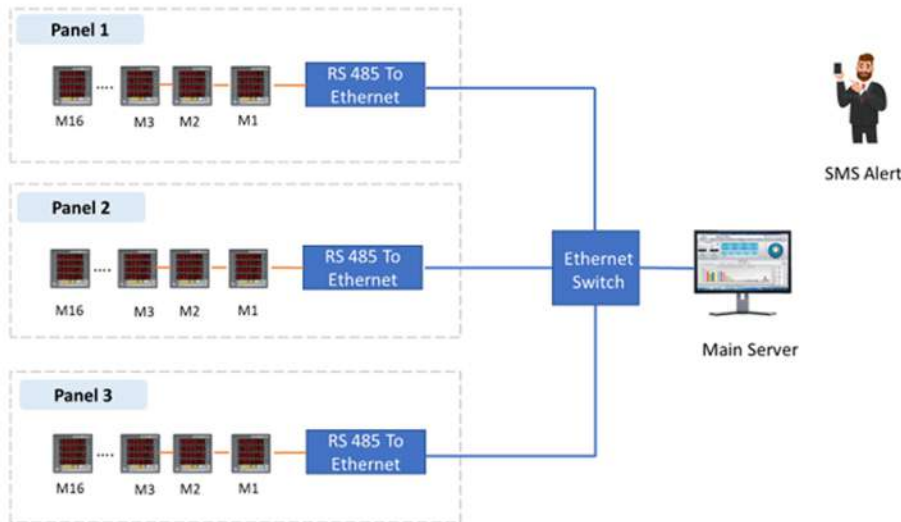


Cloud Based Dashboards Sample

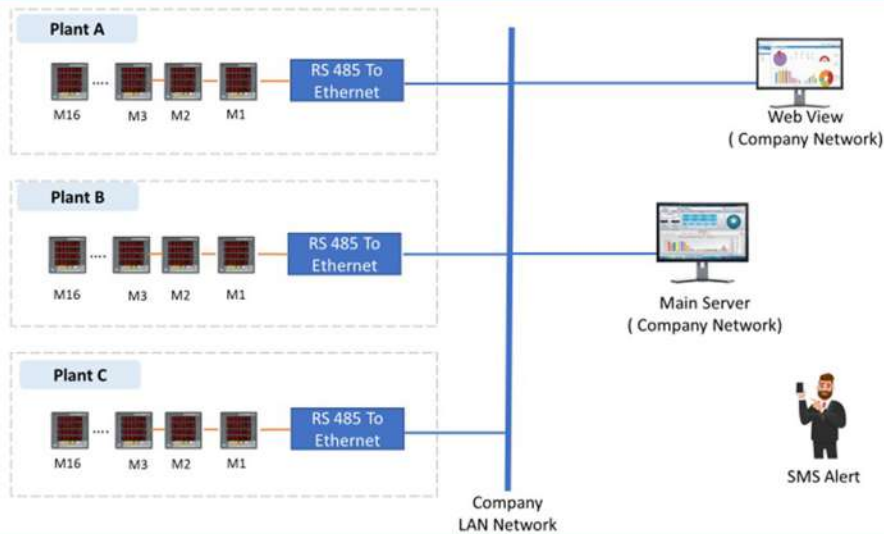


Wired Based

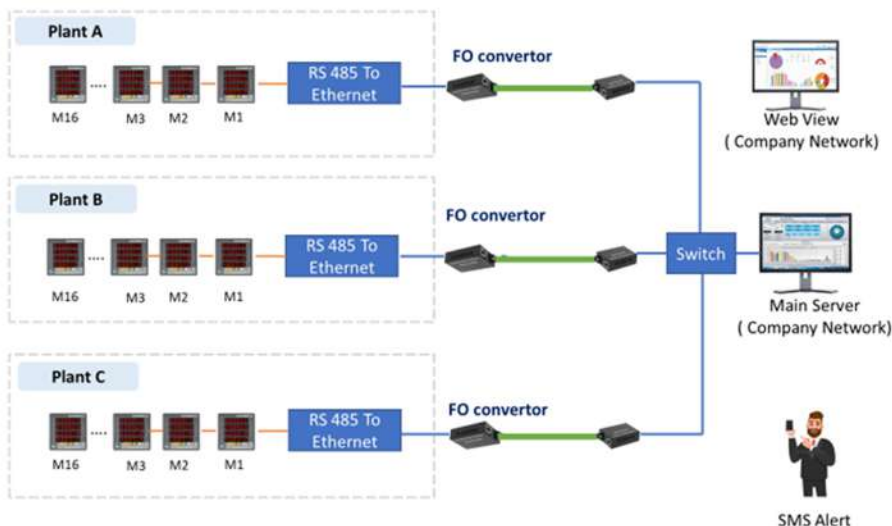
1) Basic Wired Architecture



2) Wired Architecture using Company LAN

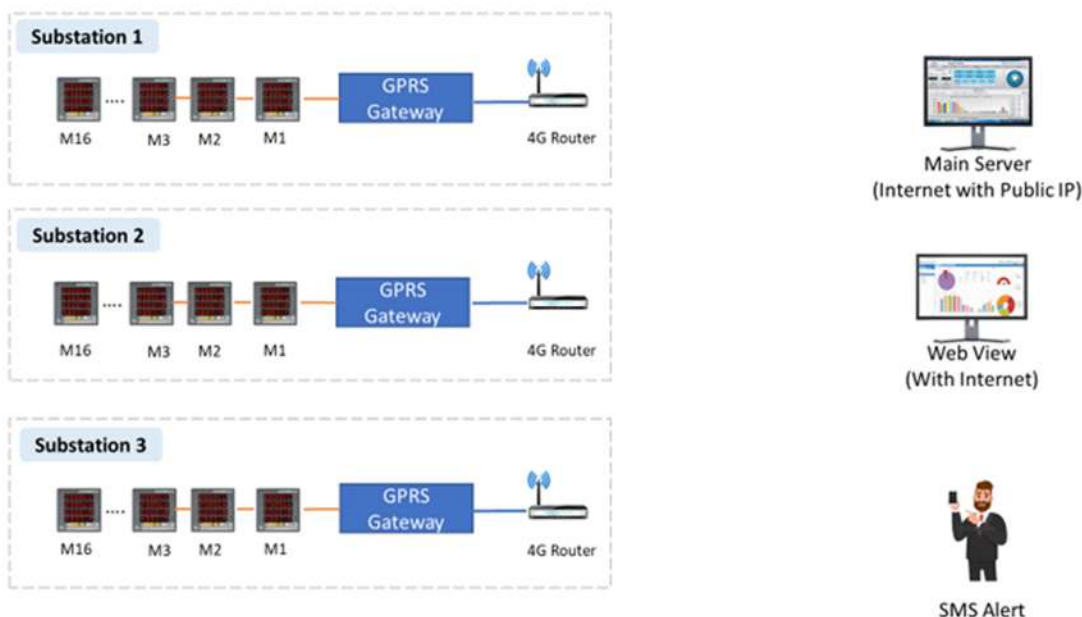


3) Fibre Optic architecture

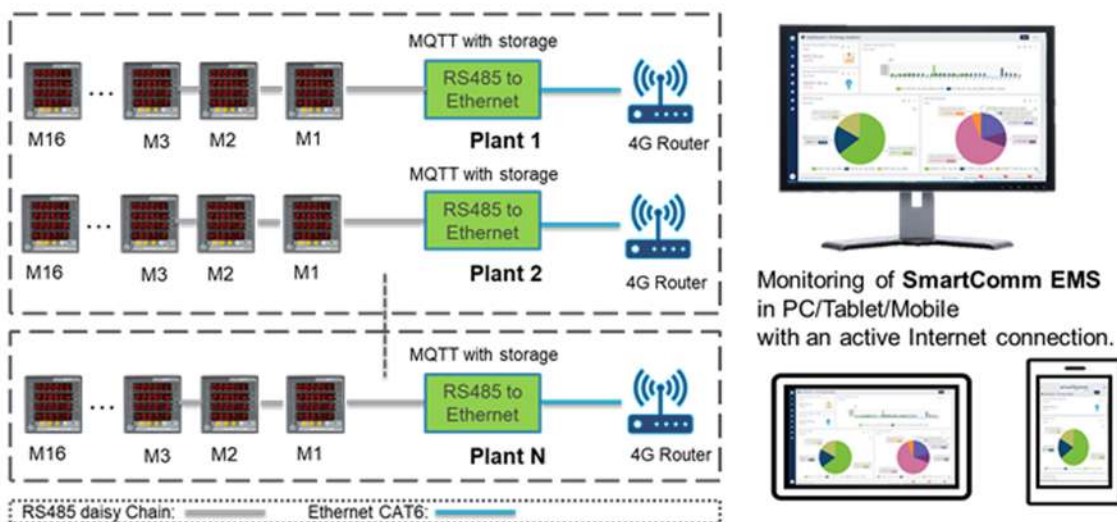


Wireless Based

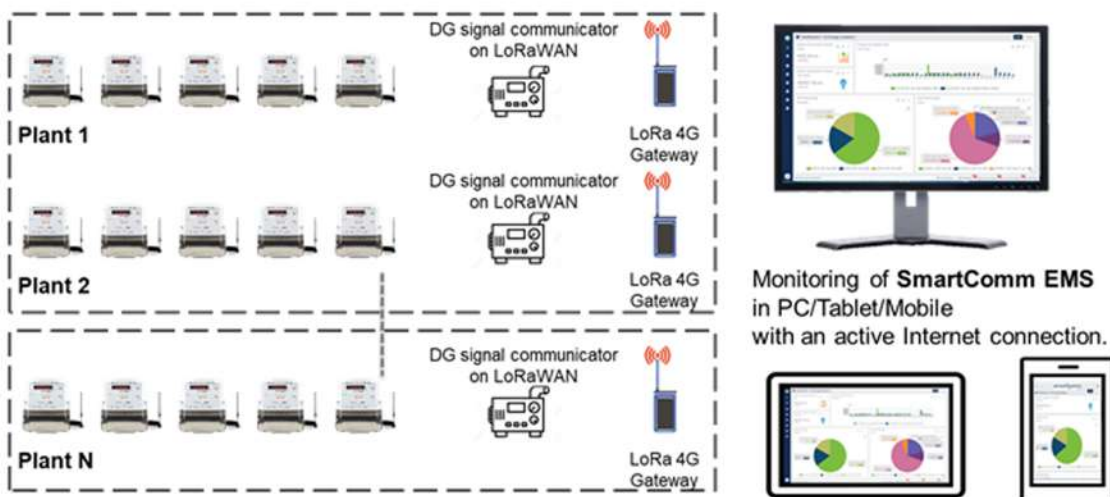
1) Wireless Architecture



2) Multi-location monitoring on EMS Cloud + MQTT (Ethernet)



3) Wireless solution architecture with LoRaWAN on EMS Cloud (GPRS LoRa GW)



OUR CLIENT



V Guard Industries Ltd



SAI SULPHONATES PVT. LTD



Wholly owned by Cooperatives



Digaru Air Force



emami



Nipha Exports Pvt. Ltd.



LAL BABA SEAMLESS TUBES



BRPL Ltd



ABP Pvt. Ltd.



Ichhapur metal & steel factory



STEELS (P) LTD
Certified ISO 9001: 2008



IREL (INDIA) LIMITED
(A Govt. of India Undertaking)



HEALTHY PIPES



Certificate



L&T Electrical & Automation



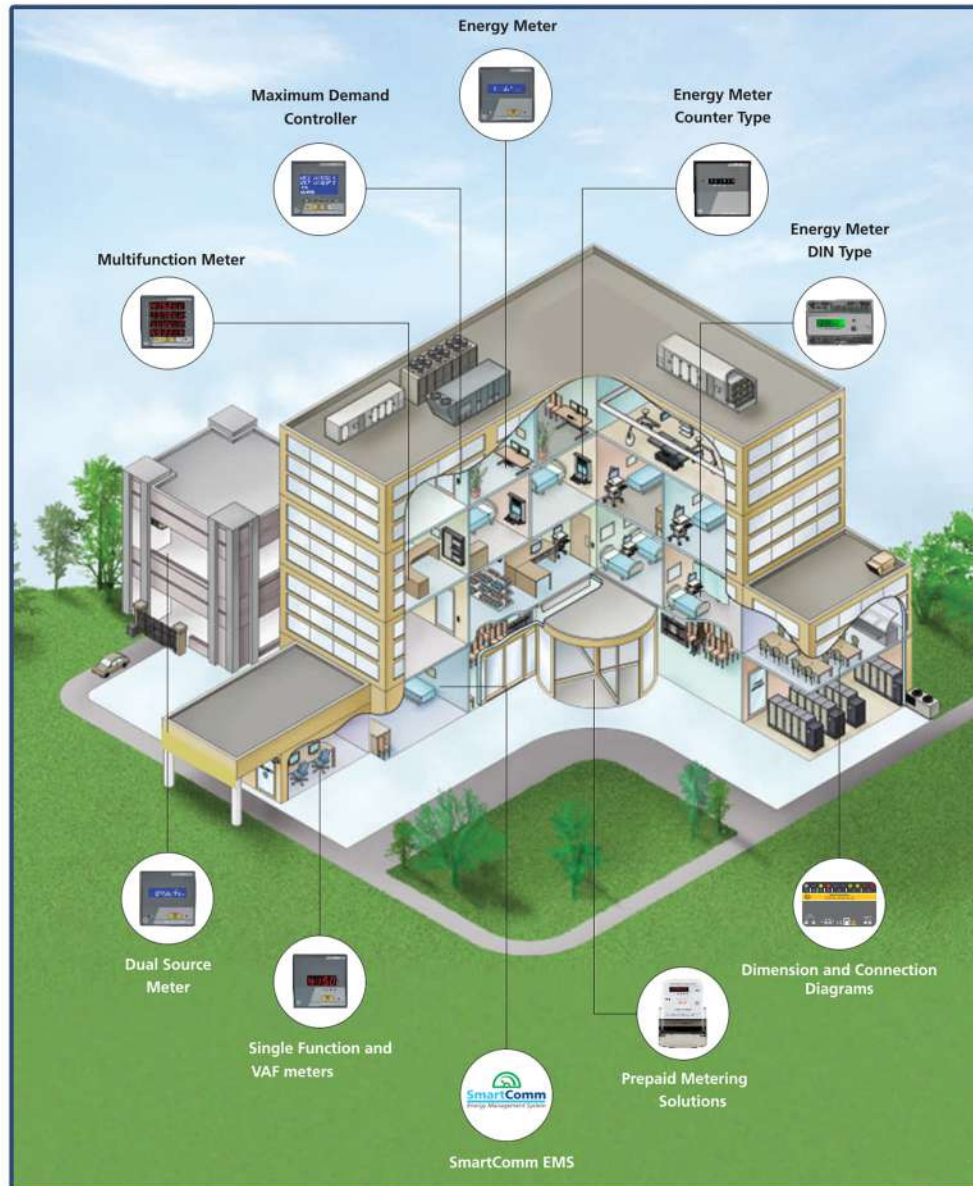
COURSER TECH, KOLKATTA

Integrated Solution Provider
for Energy Management Systems Marketed by
Electrical Standard Products
up to December 31, 2024

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Our Other Solutions- 1) PMS SCADA 2) VFD, PLC & SCADA Automation 3) Panel and Accessories 4) Sensor, Switches and Transmitters 5) Wired/Wireless Nurse Call Systems 6) Electric and pneumatic Actuator 7) Water meter and Automation 8) Remote Online Monitoring Solution 9) Instrument Accessories 10) Diagnosis Repairing 11) Annual and preventive Maintenance 12) Technical Manpower Supply

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